

Access DB# 119085

SEARCH REQUEST FORM

Scientific and Technical Information Center

#1

Requester's Full Name: Sm J. Lee Examiner #: 76060 Date: 2-8-2006
Art Unit: 1752 Phone Number 302-1333 Serial Number: 10/803,393
Mail Box and Bldg/Room Location: 9D60 Results Format Preferred (circle): PAPER DISK E-MAIL
(Rem.)

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: P12. See B-6.

Inventors (please provide full names): _____

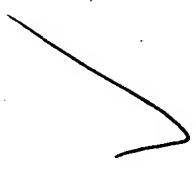
Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patents) along with the appropriate serial number.

SCIENTIFIC REFERENCE BR
Sci & Tech Inf. Cnt.
FFEB
Pat. & T.M. Off.
Pat. & T.M. Off.

Please search for an oligomer compound of the formula shown in cl. #21.

(Please do not limit search)



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(FILE 'HOME' ENTERED AT 14:16:39 ON 09 FEB 2006)

FILE 'HCAPLUS' ENTERED AT 14:17:02 ON 09 FEB 2006

E US20040175650/PN
 L1 1 S US20040175650/PN
 SEL RN

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L2 2 S E1-E2
 L3 1 S 220341-25-3/RN
 L4 1 S 3253-39-2/RN

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L5 STR

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L7 STR L5

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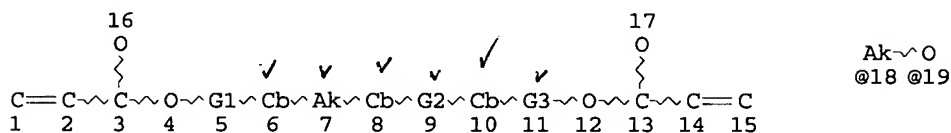
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L7 STR



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VAR G2=18-8 19-10/18-10 19-8

VAR G3=18-10 19-12/18-12 19-10

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CONNECT IS E1 RC AT 17

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 6

GGCAT IS UNS AT 8

GGCAT IS UNS AT 10

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 6

ECOUNT IS E6 C AT 8

ECOUNT IS E6 C AT 10

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

L9 SCR 1918
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 L12 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L11

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L12 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:429684 HCAPLUS

DOCUMENT NUMBER: 142:490133

TITLE: Dichroic guest-host polarizer comprising an oriented polymer film

INVENTOR(S): Lub, Johan; Peeters, Emiel; Broer, Dirk J.

PATENT ASSIGNEE(S): Koninklijke Philips Electronics N. V., Neth.

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005045485	A1	20050519	WO 2004-IB52257	2004 1102

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LQ, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: EP 2003-104099 A 2003
1106

AB A dichroic guest-host polarizer comprises an oriented polymerized liquid crystal host and aligned therewith a dichroic guest. The dichroic ratio of the polarizer is .apprx.15 or more. The polarizer may have a small thickness (< 10 µm), be manufactured using a wet deposition method, optionally in accordance with a desired pattern, and be provided on the inside of a liquid crystal cell. Polymerizable liquid crystals having a highly ordered mesophase which may be suitably used to obtain highly oriented polymer films such as polarizer films are disclosed.

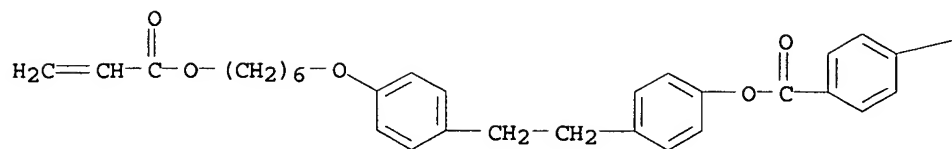
IT 852056-63-4P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (dichroic guest-host polarizer comprising an oriented polymer film)

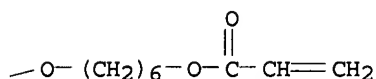
RN 852056-63-4 HCAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-[2-[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethyl]phenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IC ICM G02B005-30
 ICS C09K019-00; G02F001-1335
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 Section cross-reference(s): 75
 IT 852056-57-6P **852056-63-4P**
 RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (dichroic guest-host polarizer comprising an oriented polymer film)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:75474 HCAPLUS

DOCUMENT NUMBER: 142:186921

TITLE: Polymerizable liquid crystal compound having optically active 1-alkylethylene or 1-oxo-2-alkylethylene bonding group for display device

INVENTOR(S): Sasata, Yasuyuki; Yanai, Motoki; Yamamoto, Shinichi

PATENT ASSIGNEE(S): Chisso Corp., Japan; Chisso Petrochemical Corporation

SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005023019	A2	20050127	JP 2003-190323	2003 0702

PRIORITY APPLN. INFO.: JP 2003-190323

2003
0702

OTHER SOURCE(S): MARPAT 142:186921

AB Disclosed is the polymerizable liquid crystal compound represented by Ra-Y-(A-Z)m-A-Y-Rb or Rc-Y-(A-Z)m-A-Y-Rc (Ra-c = sp. chemical formula; Y = single bond, C1-20 alkylene; A = 1,4-cyclohexylene; Z

= sp. chemical formula; and m = integer 1-6). The use of said liquid crystal compound provided large helical force and optical transparency when it is used for the liquid crystal display device.

IT 832098-36-9 832098-37-0

RL: NUU (Other use, unclassified); USES (Uses)

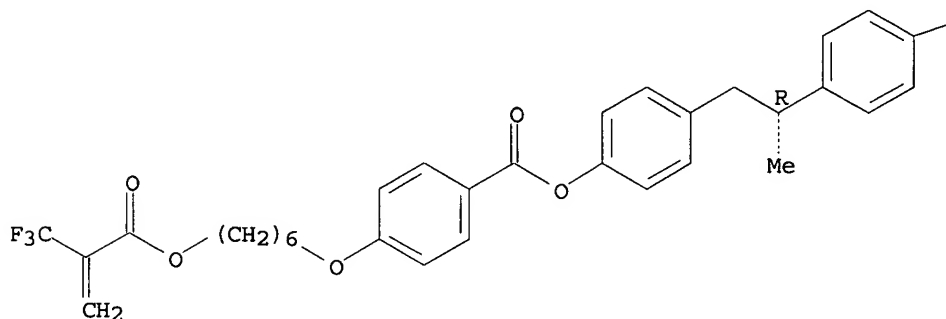
(polymerizable liquid crystal compound having optically active 1-alkylethylene or 1-oxo-2-alkylethylene bonding group for display device)

RN 832098-36-9 HCAPLUS

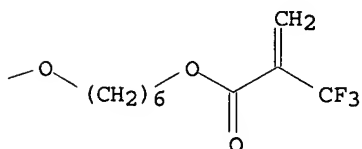
CN Benzoic acid, 4-[[6-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]hexyl]oxy]-, 4-[(2R)-2-[4-[[6-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]hexyl]oxy]phenyl]propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

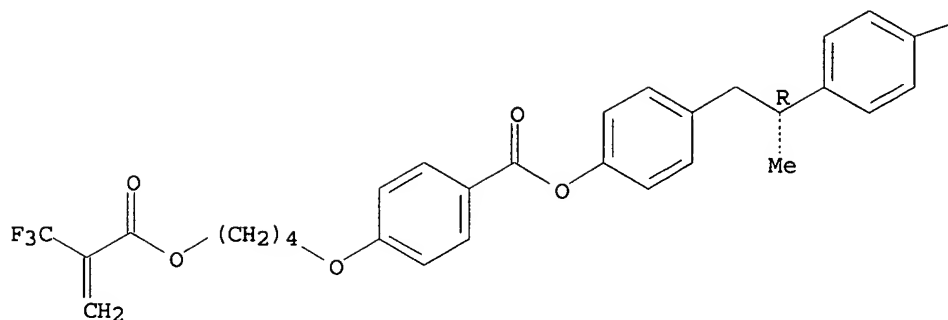


RN 832098-37-0 HCAPLUS

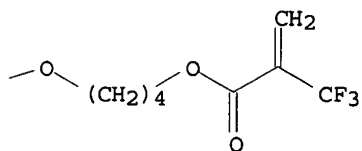
CN Benzoic acid, 4-[4-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]butoxy]-, 4-[(2R)-2-[4-[4-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]butoxy]phenyl]propyl]phenylester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



IC	ICM	C07C043-20		
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CC	74-13	(Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)		
		Section cross-reference(s): 25, 38, 75		
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832098-38-1 832098-39-2 832098-40-5 832098-41-6

832098-42-7

RL: NUU (Other use, unclassified); USES (Uses)

(polymerizable liquid crystal compound having optically active
1-alkylethylene or 1-oxo-2-alkylethylene bonding group for
display device)

L12 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:743860 HCAPLUS

DOCUMENT NUMBER: 140:67575

TITLE: Synthesis and properties of chiral stilbene
diacrylates

AUTHOR(S): Lub, J.; Ferrer, A.; Larossa, C.; Maio, B.

CORPORATE SOURCE: Philips Research Laboratories, Eindhoven, 5656
AA, Neth.

SOURCE: Liquid Crystals (2003), 30(10), 1207-1218

CODEN: LICRE6; ISSN: 0267-8292

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two chiral and isomerizable liquid crystalline diacrylates were
synthesized. The purpose of these compds. was to tune the helical
twisting power of cholesteric materials containing these compds. by
means of an E-Z photoisomerization of the photoactive group
derived from stilbene. The photochem. behavior of these compds.
was studied with the aid of two model compds. containing the same
isomerizable mesogenic group. The mesogenic group derived from
4-(4-hydroxybenzoyloxy)-4'-hydroxystilbenedecompds. upon irradiation
its isomer, derived from 4-(4-hydroxyphenoxycarbonyl)-4'-
hydroxystilbene, shows a clean E-Z isomerization. The HTP of the
chiral diacrylate derived from the latter mesogenic group changes
from 7 to 3 μm^{-1} in dilute nematic solution. Color changes in a
cholesteric material containing this compound were observed. The effect was
very dependent on temperature and concentration due to the strong smectic
character of this diacrylate.

IT 638166-99-1P 638167-00-7P 638167-15-4P

638167-20-1P 638167-51-8P 638167-52-9P

638167-53-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)

(synthesis and properties of chiral stilbene diacrylates)

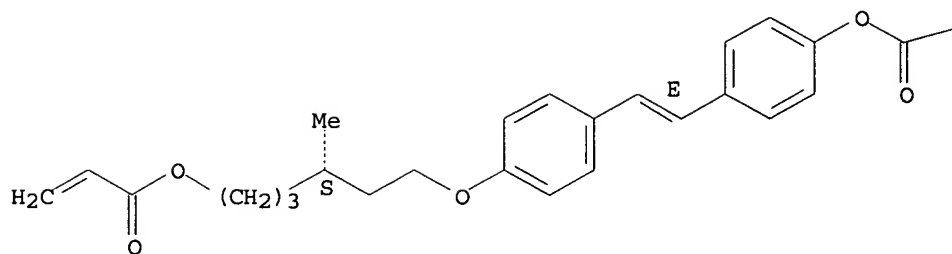
RN 638166-99-1 HCAPLUS

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INDEX NAME)

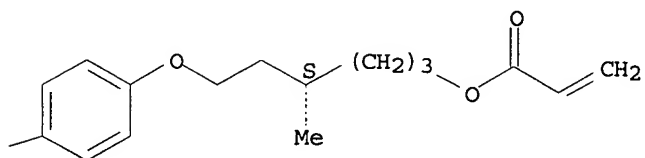
Absolute stereochemistry.

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

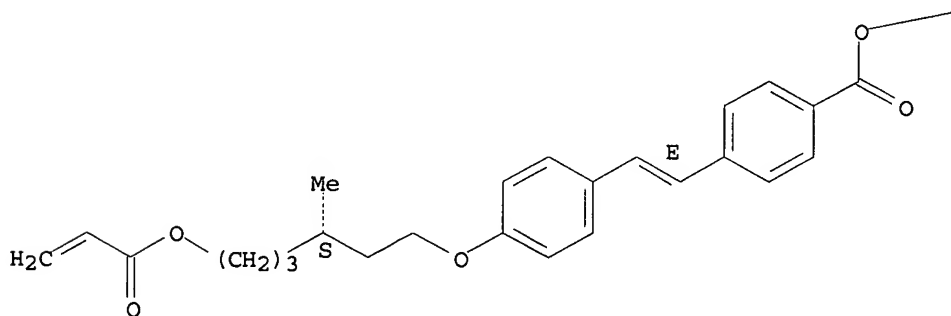


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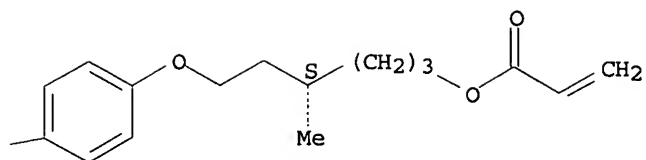
CN Benzoic acid, 4-[(1E)-2-[4-[[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]-, 4-[[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



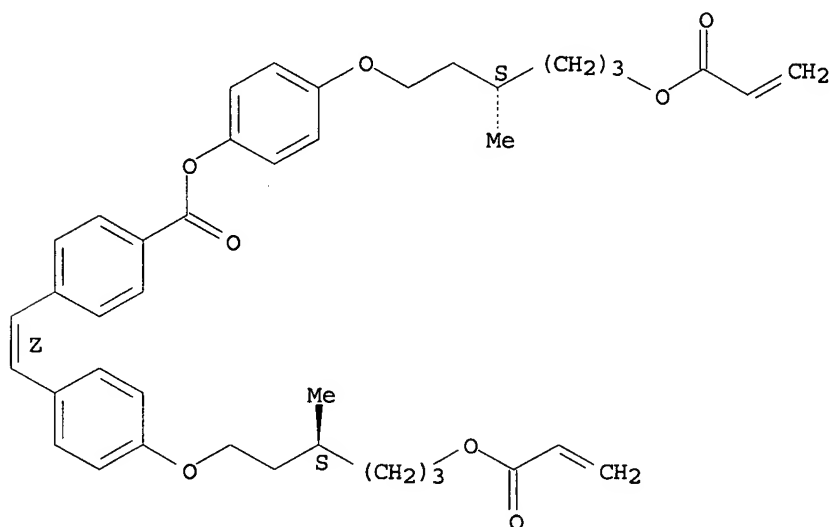
PAGE 1-B



RN 638167-15-4 HCAPLUS

CN Benzoic acid, 4-[(1Z)-2-[4-[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]-, 4-[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenylester (9CI) (CA INDEX NAME)

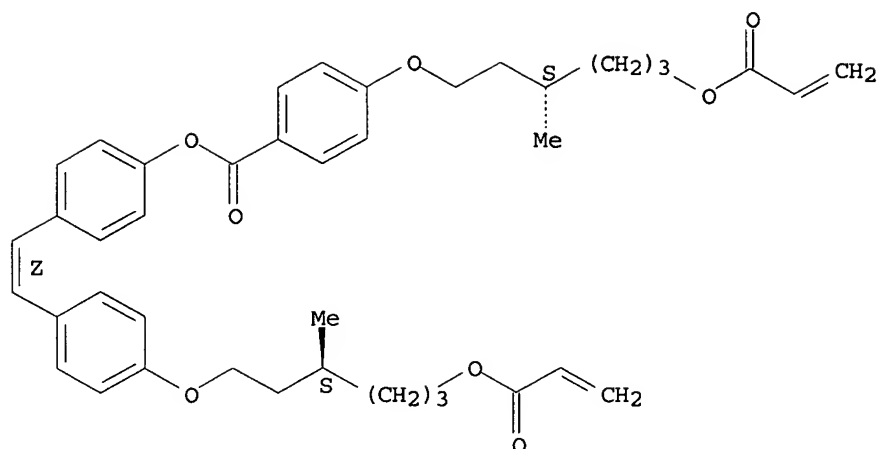
Absolute stereochemistry.
Double bond geometry as shown.



RN 638167-20-1 HCAPLUS

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Absolute stereochemistry.
Double bond geometry as shown.



RN 638167-51-8 HCAPLUS

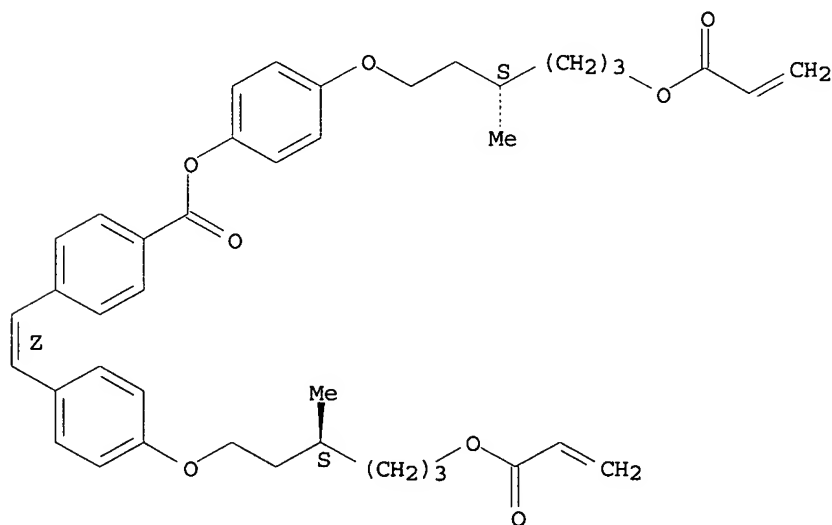
CN Benzoic acid, 4-[(1Z)-2-[4-[[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]-, 4-[[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenylester, mixt. with 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 638167-15-4

CMF C41 H48 O8

Absolute stereochemistry.
Double bond geometry as shown.

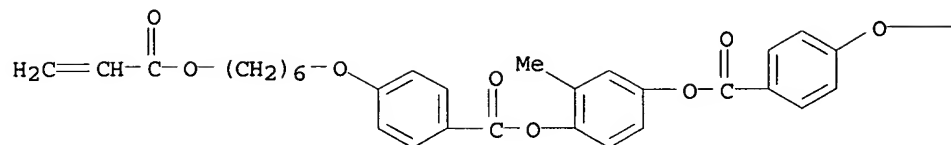


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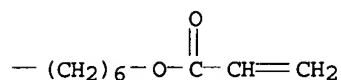
CRN 125248-71-7

CMF C39 H44 O10

PAGE 1-A



PAGE 1-B



RN 638167-52-9 HCAPLUS

CN Benzoic acid, 4-[(1E)-2-[4-[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]-, 4-[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenylester, mixt. with 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

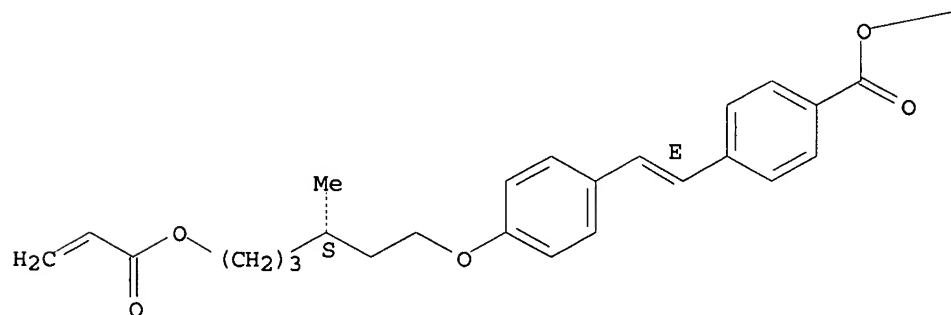
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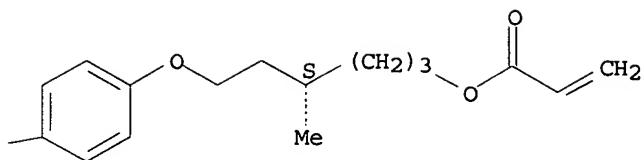
CMF C41 H48 O8

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

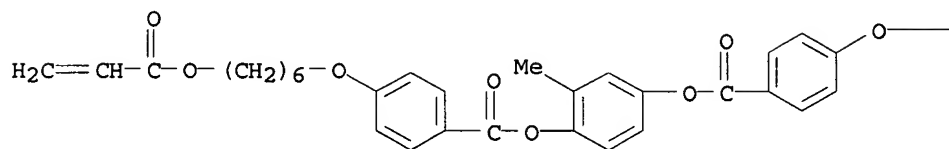


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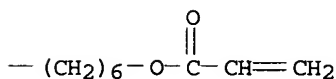
CRN 125248-71-7

CMF C39 H44 O10

PAGE 1-A



PAGE 1-B



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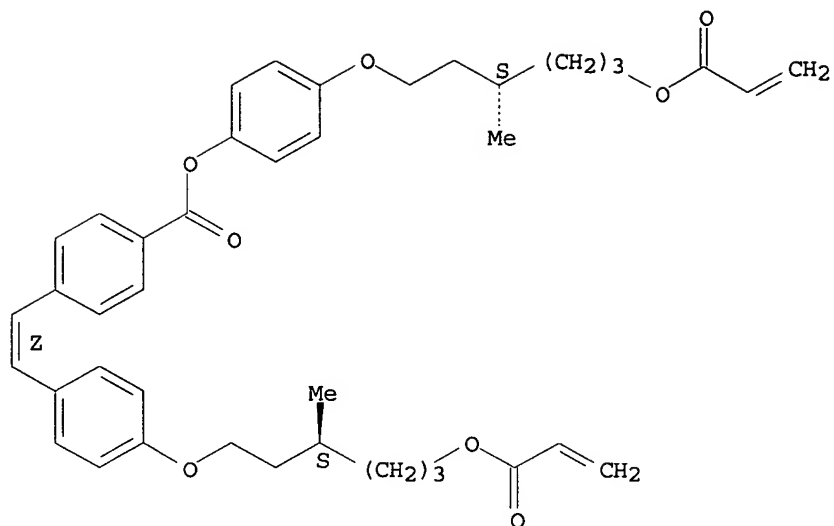
CN Benzoic acid, 4-[[3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester, mixt. with 4-[[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl 4-[(1Z)-2-[4-[[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]benzoate and 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 638167-15-4

CMF C41 H48 O8

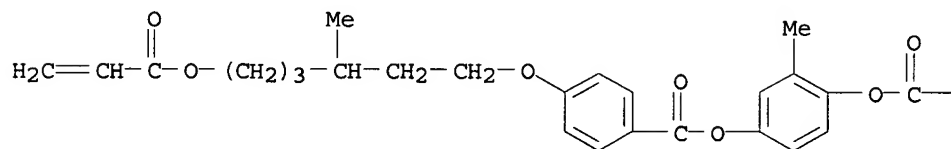
Absolute stereochemistry.
Double bond geometry as shown.



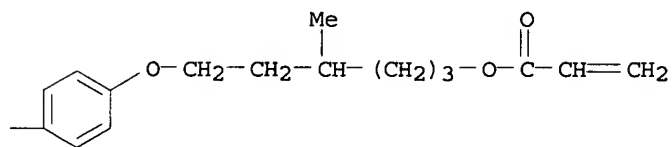
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CRN 360563-72-0
CMF C41 H48 O10

PAGE 1-A



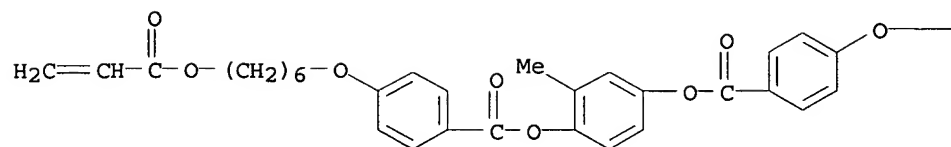
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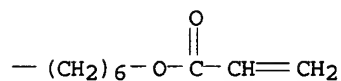
CM 3

CRN 125248-71-7
CMF C39 H44 O10

PAGE 1-A



PAGE 1-B



CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s) : 75

IT 638166-99-1P 638167-00-7P 638167-07-4P

638167-08-5P 638167-09-6P 638167-15-4P

638167-20-1P 638167-21-2P 638167-51-8P

638167-52-9P 638167-53-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(synthesis and properties of chiral stilbene diacrylates)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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